Karan Raj Sharma

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Education

- **Indian Institute of Technology, Guwahati** — July 2019 - May 2023
  B. Tech. - Computer Science and Engineering — *CPI - 8.51*

Competitive Programming and Other Achievements

- **Codeforces: Candidate Master** (**Rating 1956**) , among **top 0.3 % Coders in India**   karan
- **Global rank 50** (out of 17763 participants) in Codeforces Round 892
- **Global rank 58** (out of 14954 participants) in Codeforces Educational Codeforces Round 151
- **CodeChef:** Rating **2132**, **5* Coder** on CodeChef   karan_04
- **Google Code Jam 2022:** Secured a global rank of **381** among nearly **15k** contesting candidates in Round 1.
- **CodeChef Lunchtime:** Secured a global rank of **70** among nearly **5k** contesting candidates.
- **HackerRank: 5 star** in **C++** and **Problem Solving**
- **DevRev PPO:** Got pre-placement offer from DevRev on the basis of work done during internship.
- **JEE (Adv) 2019:** Secured an All India Rank of **510** among **0.16 million** contesting candidates.

Experience

- **Member of Technical Staff** — July 2023 - Present
  DevRev
  - Working as a full-stack Engineer contributing to various features in the DevRev App using **Golang** for backend and **React TypeScript** for frontend.
  - Revamped the filters framework in the Support Inbox page and its e2e tests, worked on CSAT Surveys on conversations and Tickets, and currently working on extensive Business Hours Customization for SLAs on UI.
- **Member of Technical Staff (Summer Internship + Part-time alongside College)** — May 2022 - April 2023
  DevRev
  - Developed and deployed an end-to-end video call feature in app, using **React TypeScript** and **Tailwind CSS** for frontend, **Cypress** for its testing and **Golang** for the backend.
  - Worked on various UI tasks on the DevRev Support Widget and the DevRev app using React and TypeScript, including various features like Rich Text Editor, Token Creation Page, App Credentials page, e2e tests for the support widget from scratch, refactored and extended generalizability of various components.
- **Page Migration (B. Tech Project)** — December 2023 - March 2023
  Dr. T. Venkatesh, Dept. of CSE, IIT Guwahati
  - Implemented a **simulator** for simulating migration of pages between local and remote memories, with a **novel** hot page detection algorithm in remote memory, and LRU for victim page selection in local memory.
  - Implemented the entire simulator in **C++**.

Projects

- **Personal Website** — October 2022
  Personal Project — *https://karan-sharma.netlify.app/*
  - Developed a responsive React.js and Tailwind CSS based resume website with animations and transitions for all screen sizes.
- **A* Pathfinding Visualizer** — July 2021
  Personal Project — *https://git.io/JlJwz*
  - Developed a python visualization of the A* pathfinding algorithm using Pygame and TKinter, which allows users to pick a start and end location and view the process of finding the shortest path.

Technical Skills

- **Programming Languages**: C/C++, Go, JavaScript, TypeScript
- **Web Technologies**: HTML, CSS, React, Node.js, Tailwind CSS, Cypress
- **Database Management**: MySQL, MongoDB
- **Operating Systems**: Linux,Windows, Mac OS   * *Elementary Proficiency*

Key Courses Undertaken

- **Computer Science**: Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management, Machine Learning, Deep Learning
- **Mathematics**: Probability Theory and Random Processes, Linear Algebra, Advanced Mathematics for Engineers